



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

# Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040267	ACI001-VC	2	1	Net 30	M304R3.750	304/316 Round Bar Ø3.750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE				3	7/18/2018	3		S090995	Stock	7/11/2018	\$ 265.00 / ft	0		\$795.00	Acier Ouellette Inc.
		4			MT-4140-S- 0.500X3.500	AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC				6		6		S090996	Stock	7/11/2018	\$ 18.94 / ft	0		\$113.66	Acier Ouellette Inc.
										<b>Total:</b>		<b>9</b>								<b>\$690.91</b>	

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ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO000096401

Billed to

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD  
Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056  
Date 2018/06/20  
Delivery date 2018/07/11  
Your order N° 040267  
Processed by Eric Kaehlert  
Salesman  
Carrier OUELLETTE VALLEYFIELD  
Credit Terme Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND SS 3/4 304 NS RSS-334 11272 1 X 3' ** CERTIFICATE ** AC17562-TH-2018-07-09 Heat : 274065	112.65	3.00	PI_\$CLB		31					

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 112.65

NIR : R-109516-6

Prepared By : 	Verified By : 	Delivered By : Time	Date Y M D
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Customer's Signature



ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl.: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl.: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00096399

Billed to

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD  
Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056  
Date 2018/06/20  
Delivery date 2018/07/10  
Your order N° 040267  
Processed by Eric Kaehlert  
Salesman  
Carrier OUELLETTE VALLEYFIELD  
Credit Terme Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 1 PC 3-1/2" X 6' ** CERTIFICATE **  LINE: 4  AC17566-FU-2018-06-28 Heat 297080 AT	35.73	1.75	PI2								

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 35.73

NIR : R-109516-6

Prepared By :  
Verified By :  
Date

Delivered By :  
Time

Customer's Signature  
Date



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO040267

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO040267

**PO Date:** 6/20/18

**Due Date:** 6/28/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** quote sou0113485

## Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	6/28/18	12 ft	0 ft	12 ft	\$8.7025/ft	\$104.43
2		M304R3.750		304/316 Round Bar Ø3.750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE	Firmed	7/16/18	3 ft	0 ft	3 ft	\$265.00/ft	\$795.00
3		MT-A513-T- 0.8750W0.120		A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120" Wall	Firmed	6/28/18	100 ft	0 ft	100 ft	\$2.3595/ft	\$235.95
4		MT-4140-S-0.500X3.500		AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC	Firmed	6/28/18	6 ft	0 ft	6 ft	\$18.94333/ft	\$113.66

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M304B0.500X012.000		304 Bar .500 X 12.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/28/18	6 ft	0 ft	6 ft	\$86.95/ft	\$521.70
6		M6061T6S1.750X10.000		6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$22.158333/ft	\$531.80
Line Item Note PLEASE CUT BAR IN HALF 6 FT LENGTH											
7		M4140H-R0.375		4140 Round Bar .375 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/-A193-03-GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$1.92125/ft	\$46.11

Grand Total: \$2,348.65

## Order Notes

## Procurement Quality Clauses

A005 right of entry  
 A012 chemical and physical test report  
 A016 personnel qualification  
 A017 raw material identification (as applicable)  
 A026 certification of material conformance  
 A041 quality management system  
 A042 dart notification by supplier  
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 6/20/18 1:07 PM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

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Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Quotation**

SOU0113485

**Billed to**

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Customer N°**

CLI0001056

**Date**

2018/06/12

**Revision N°**

0

**Prices valid until**

2018/06/19

**Your Order N°****Processed by**

Denis Quenneville

**Salesman**

ERIC

**Carrier**

OUELLE SDV

**Credit Terms**

Net 30 Days

**Page**

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND SS 3/4 17-4 PH H1150 NS RSS-34174 9268 1 X 6' 2-3 DAYS 35.296666	9.01	6.00	PI_\$CLB	6.00	PI	35.30			211.78
ROUND SS 3-1/2" DIA RANDOM H1150 N 2 X 12' R/L 2-3 DAYS	0.00	24.00	PI	24.00	UN	250.00			6 000.00
** PRICE VALID FOR 24 FT MIN **									
ROUND SS 4 17-4 PH H1150 RANDOM RSS-4174-V 8998 1 X 6' 2-3 DAYS	256.38	6.00	PI_\$CLB	6.00	UN_\$UN	352.52			2 115.14
ROUND SS 3 3/4 17-4 PH SOL ANN RANDOM NS RSS-334174-V 8850 1 X 4' 5-7 DAYS (OFFER SOL ANN CONDITION)	150.20	4.00	PI_\$CLB	4.00	UN_\$UN	260.97			1 043.89
ROUND 5" DIA RANDOM SS303 N 1 X 3' AMS 5640 2-3 WEEKS	0.00	1.00	UN	1.00	UN	1 455.00			1 455.00
ROUND SS 1 303 (R) RSS-1303 8519 1 X 12' R/L STOCK	32.04	12.00	PI_\$CLB	12.00	UN_\$UN	8.70			104.43
ROUND 3-3/4" DIA SS304 RANDOM N 1 X 3' 2-3 WEEKS	0.00	1.00	UN	1.00	UN	795.00			795.00
TUBE MEC 0.875 OD X .120 (R) TME-0875120 6787 5 X 20' R/L 2-3 DAYS	96.80	100.00	PI_\$CPI	100.00	PI	2.36			235.95
ROUND 2" DIA 4130 NORMALIZED RANDOM N 1 X 3' AMS 6348 1 WEEK	0.00	1.00	UN	1.00	UN	474.95			474.95

Date :

Next Page...

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**Quotation**

SOU0113485

**Billed to**

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

**Customer N°**

CLI0001056

**Date**

2018/06/12

**Revision N°**

0

**Prices valid until**

2018/06/19

**Your Order N°****Processed by**

Denis Quenneville

**Salesman**

ERIC

**Carrier**

OUELLE SDV

**Credit Terms**

Net 30 Days

**Page**

2

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
O-1 FLAT GROUND STOCK 1/4" X 3" X 36" N 1 X 3' 4-6 DAYS	0.00	1.00	UN	1.00	UN	95.00			95.00
PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 8509 1 X 3-1/2" X 72" 4-6 DAYS	35.73	1.75	PI2	1.75	UN_\$UN	64.95			113.66
PLATE SS 1/2 SS304 HRAP RANDOM PSS-12 4758 1 X 12" X 72" 3-4 DAYS	129.98	6.00	PI2	6.00	PI2	86.95			521.70
PLATE ALU. 2-1/4" 6061-T6 RANDOM N 1 X 4" X 144" 2-3 DAYS	0.00	4.00	PI2	4.00	UN	139.50			558.00
ALU PLATE 2 1/2 6061-T651 RANDOM PAL-2126061-V 7461 1 X 4-1/2" X 72" 2-3 DAYS	80.55	2.25	PI2	2.25	PI2	182.95			411.64
ALU PLATE 2 1/2 6061-T651 RANDOM PAL-2126061-V 7461 1 X 1-1/4" X 144" 2-3 DAYS	44.75	1.25	PI2_\$CLB	1.25	PI2	147.84			184.80
ALU PLATE 3 6061-T651 RANDOM PAL-36061-V 7482 1 X 5" X 72" 2-3 DAYS	107.13	2.50	PI2	2.50	PI2	225.95			564.88
ALU PLATE 1 3/4 6061-T651 RANDOM PAL-1346061-V 7458 2 X 10" X 144" 2-3 DAYS  ** PRICE VALID FOR 2 PIECES **	50.14	2.00	PI2	2.00	PI2	132.95			265.90
ALU PLATE 1 7075-T651 NS PAL-17075 9889 1 X 8" X 144" 2-3 WEEKS	116.32	8.00	PI2	8.00	UN_\$UN	130.95			1 047.60

Date :

Next Page...



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Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Quotation****SOU0113485****Billed to**

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

**Customer N°**

CLI0001056

**Date**

2018/06/12

**Revision N°**

0

**Prices valid until****2018/06/19****Your Order N°****Processed by**

Denis Quenneville

**Salesman**

ERIC

**Carrier**

OUELLE SDV

**Credit Terms**

Net 30 Days

**Page**

3

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT 1-1/4" X 2" SS 17-4 RANDOM N 2 X 12' R/L 7-10 DAYS  ** PRICE VALID FOR TOTAL TOTAL QUANTITY **	0.00	24.00	PI	24.00	UN	79.95			1 918.80
ROUND 4140 ANNEALED 3/8 (R) R4140-38A 4951 2 X 12' R/L 4-5 DAYS	9.02	24.00	PI_\$CLB	24.00	PI	1.92			46.11
FUEL CHARGE FRAIS_ENERGETIQUE			\$						3.95

**Total Weight (Lbs)** 1 118.05**Important**

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices.

This offer is subject to credit approval.

Approuved and Accepted by :

Date :

**Sub-total**

18 168.18

TVH-13 · 2361.86

**Total (\$CAD)****20 530.04**



96399  
Dart

17566N

<b>Chemical certification</b> <b>Certification chimique</b>
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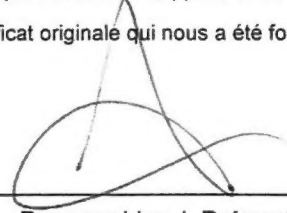
Order Num / No. Commande <b>AC17566</b>	Vendor / Fournisseur <b>46</b>	Country of origin / Pay d'origine <b>SLOVENIA</b>	Date <b>09/10/16</b>	Heat / coulée <b>297080</b>	Material ID # / No. matériel
Grade / Nuance <b>4140 PLT</b>	Conditions <b>HEAT TREATED Q&amp;T E + VD</b>				
Shape / Forme <b>FLT</b>	Size / Dimension <b>0.500</b>	Specifications <b>ASTM A829/A829M</b>			

Chemical composition / Analyse chimique					
Carbon (C)		Silicon (Si)		Manganese (Mn)	
Mini / maxi	0.3700 / 0.4400	0.1500 / 0.3500		0.6500 / 1.1000	
Actuel %	0.430	0.224		0.783	
Sulphur (S)		Chromium (Cr)		Nickel (Ni)	
Mini / maxi	0.0200 / 0.0400	0.7500 / 1.2000		0.1000 / 0.2000	
Actuel %	0.001	0.960		0.130	
Cooper (Cu)		Vanadium (V)		Aluminum (Al)	
Mini / maxi	0.1900 / 0.2900	0.0400 / 0.0500		0.0090 / 0.0190	
Actuel %	0.244	0.039		0.015	
Cobalt (Co)		Titanium (Ti)			
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000		0.0000 / 0.0000	
Actuel %	0.000	0.000		0.000	
Mechanical properties / Propriétés Mécaniques					
Yield strenght / Élasticité		Tensile / Rés. à la traction		Elongation / Allon. (%)	
0.000 PSI		0.000 PSI		0.00	
				0.00	
				RC	
				Surface Hd / Dureté	
				284 BHN	

**Note:**

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

  
 Prepared by: / Préparé par:

REV.	A	DESCRIPTION	ECN #	DATE	BY
		NEW ISSUE	18-544	18.2.13	VM

## SPECIFICATION CONTROL DRAWING

**PURCHASE MATERIAL :** AISI 4140 / 4142 STEEL SHEET OR PLATE  
 MINIMUM ROCKWELL C = 28 Rc  
 MAXIMUM ROCKWELL C = 32 Rc

**SPECIFICATION:** ASTM A829 AMS 6395

**PART NUMBER:** MT-4140-S-[T.TTT] x [W.WWWW]  
 WHERE "T.TTT" = THICKNESS IN INCHES  
 WHERE "W.WWWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063  
 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

**FILE** AISI 4140 / 4142 STEEL SHEET OR PLATE

**PART NO.** MT-4140-S

DESIGNED BY: VM 2/13/2018	CHECKED BY: VM 02/13/2018
DRAWN BY: VM 02/13/2018	APPROVED BY: ML 02/14/2018
CHECKED BY: VM 02/13/2018	SCALE: NTS

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 ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE.

SPECIFICATION: ASTM A829 AMS 6395

PART NUMBER: MT-4140-S-[T.TTT] x [W.WWW]  
WHERE "T.TTT" = THICKNESS IN INCHES  
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063  
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

[illegible]

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-5-0.500x3.500  
 DATE: 18/07/11

PO / BATCH NO.: P0040267/5090996

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 6'  
 QUANTITY INSPECTED: 6'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"  
 THICKNESS RECEIVED: 0.500"  
 SHEET SIZE ORDERED: 0.500x3.500  
 SHEET SIZE RECEIVED: 0.500x3.500

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM A829
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT: 297080
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <u>PD</u> DATE: <u>18/07/11</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



96401

**VALBRUNA**
 SLATER STAINLESS, INC.  
 2400 TAYLOR STREET WEST - PO BOX 630  
 FORT WAYNE IN 46802 USA  
 PHONE 260.434.2800 - FAX 260.434.2801

Dart

**Product Certification Report**Report Number: **5472742**

17562N

Certified on Mar 19, 2018 Page 1 of 2

Order I.D. <b>OA18001213 0060</b>		Order Date <b>2/27/18</b>	Commodity Code <b>304D3.75RT</b>	
Dim 1 <b>3.7500</b>	Dim 2 <b>.0000</b>	Heat I.D. <b>274065</b>	Customer I.D. <b>0008000061</b>	Customer Purchase Order <b>57897</b>
Product Shape <b>Round</b>		Product Surface <b>HR &amp; Rough Turned</b>		Customer Grade <b>304/304L</b>
Length (inches) <b>.000 Min. .000 Max.</b>		Bill of Lading # <b>PL18001032/2</b>		Weight <b>002676 LBS</b>

**VALBRUNA STAINLESS, INC.**  
**370 VILLAGE DRIVE**  
**Ship To CAROL STREAM, IL 60188**

**VALBRUNA STAINLESS INC.**  
**Sold To 2400 TAYLOR STREET WEST**  
**FORT WAYNE, IN, IN 46802**

**Lifts: 0037**

ASTM A484-16	Type 304/304L	EN 10204 3.1
MIL-S-862B	*ASTMA 262-15	ASTMA 370-17
ASTM A 182-18 Chem only	ASME SA182 13 (Chem)	ASTM A479-18
ASMESA 276 13 ED	*AMS 5647K	SAE-AMS QQ-S-763D
<u>ASTM A276-17</u>	ASTMA 320-17b Chem Only	ASTM A314-15
<u>AMS 5639J (CHEM)</u>	ASTM A473-01 (Chem)	ASME SA479-13 ED

**CHEMICAL ANALYSIS**

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.014	.81	.029	.027	.62	18.16	8.05	.46	.40	.12	.090

**BRINELL Type A device E10-15a**
 HBW  
 169
**ROOM TEMP TENSILE ASTM E8-16a**

TS (PSI)	.2%YS (PSI)	%EL (4d)	%RA
90100	41100	56.2	74.4

**GRAIN SIZE ASTM E112-13**

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

**ASTM A262-15 PR E(A Utilized)**

OXALIC	Structure	Etchant	Magnification X	QUENCH	SENS(F)	SENS(HR)
OK	Step	Oxalic	500	Air	1200	1.50

Free of mercury and low melting alloy contamination.

Solution annealed at 1900F min. and water quenched (heating time &amp; temp appropriate for optimum quality).

No welding or weld repair done.

Electric Furnace melted; AOD refined.

\*Certification revised at Valbruna by T. Landwehr (5/1/18)

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination. No weld repair.

Material melted in Italy, manufactured in the United States.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

email: TLandwehr@valbruna.us

Tad Landwehr

**VALBRUNA**SLATER STAINLESS, INC.  
2400 TAYLOR STREET WEST - PO BOX 630  
FORT WAYNE IN 46802 USA  
PHONE 260.434.2800 - FAX 260.434.2801**Product Certification Report**Report Number: **5472742**

Certified on Mar 19, 2018 Page 2 of 2

Order I.D. <b>OA18001213 0060</b>		Order Date <b>2/27/18</b>	Dish modify Code <b>304D3.75RT</b>	
Dim 1 <b>3.7500</b>	Dim 2 <b>.0000</b>	Heat I.D. <b>274065</b>	Customer I.D. <b>0008000061</b>	Customer Purchase Order <b>57897</b>
Product Shape <b>Round</b>		Product Surface <b>HR &amp; Rough Turned</b>		Customer Grade <b>304/304L</b>
Length (Inches) <b>.000 Min.</b>		Bill of Lading # <b>.000 Max. PL18001032/2</b>		Weight <b>002676 LBS</b>

**VALBRUNA STAINLESS, INC.**  
**370 VILLAGE DRIVE**  
**Ship To CAROL STREAM, IL 60188****VALBRUNA STAINLESS INC.**  
**Sold To 2400 TAYLOR STREET WEST**  
**FORT WAYNE, IN, IN 46802**Quality system is compliant with ISO 9001:2015. Produced in accordance with EN 10204 3.1.

Date 6-27-18  
Customer Acier  
These Tests Are For Material Shipped On  
Your Order AC00017562  
From Copper And Brass Sales, Inc.  
INV/WO 2406058697  
WGT 113 PCS 1  
12 Labcy QC

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services Tad Landwehr  
email: TLandwehr@valbruna.us Tad Landwehr

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR  
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276  
PART NUMBER: M304R0.750 DIA.

WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 0.75" ROUND BAR = M304R0.750

RELEASED  
11/28/25

B	REFORMAT DWG. ADD SPECS (ZN D6-1).	CP	09.07.15
A	NEW ISSUE	AJS	08.03.03
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	QA		
CHECKED			
MFG. APPR.	M304R		
APPROVED			
DE APPR.			
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. REV. B			
M304R SHEET 1 OF 1			
TITLE SCALE			
304/316 ROUND BAR NTS			
DATE 09.07.15			
COPYRIGHT © 2008 BY DART AEROSPACE LTD			
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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 304 R 3.750  
 DATE: 18/07/11

PO / BATCH NO.: PD 040267 / 5090945

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 3'  
 QUANTITY INSPECTED: 3'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.750"  
 THICKNESS RECEIVED: 3.750"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A276
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT: 274065
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u> <u>BD</u> DATE: <u>18/07/11</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in